

<p>90-243070/32 A96 D22 F04 KAOS 16.12.88 KAO CORP *JO 2169-755-A 16.12.88-JP-318014 (29.06.90) A61f-13/15 D04h-01/42 Mfg. high water absorption fibre compression moulding - by imparting surfactant to the fibre, humidifying, forming into sheet and compressing C90-105323</p>	<p>A(4-F4, 8-S1, 9-A, 11-C5, 12-S5G, 12-S5S, 12-S5U) D(9-C6)<sup>1</sup> F(1-D2, 2-C1, 3-C, 3-C5, 4-C1, 4-E)</p>
<p>Prepn. of a high water absorption fibre compression moulding body comprises imparting a surfactant to the high water absorption fibre, humidifying, forming into a sheet, and then compressing. The fibre comprises polycarboxylic acid or salt thereof. The surfactant is anionic or nonionic. The water content of the high water absorption fibre becomes 5-80 wt.% per dry wt. of the fibre by humidification. <u>USE/ADVANTAGE</u> The moulding body is useful for paper diapers, napkins, water stop material for architecture and engineering, dew preventing material, oil separating material etc. <u>MATERIAL</u> The polycarboxylic acid (salt) includes (co)polymer of ethylenically unsatd. carboxylic acid (salt) (A), copolymer</p>	<p>of (A) and ethylenically unsatd. carboxylic ester, vinyl ester or ethylenically unsatd. monomer, and pref. polyacrylic acid or salt thereof. The salt can be selected from alkali metal salt, Al salt, amine salt etc. and degree of neutralisation can be selected opt. The examples of anionic surfactant are sulphuric ester- sulphonic- phosphoric ester salt etc. The typical example of nonionic surfactant is ethylene oxide addition prod. of higher alcohol, alkyl phenol or fatty acid. Adhesion amt. of the surfactant in the high water absorption fibre is more than 0.1 wt.% to the dry fibre, pref. 0.1-5 wt.%. Humidification method includes e.g., passing the fibre through mist, leaving the fibre in the atmosphere above 50% RH, pref. above 70% RH etc. The temp. at humidification is room temp. to 40°C. Compressive pressure is above 50 kg/cm<sup>2</sup>, (pref. 100-250kg/cm<sup>2</sup>.) (8ppW152CMDwgNo0/1) J02169755-A</p>

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128, Theobalds Road, London WC1X 8RP, England  
US Office: Derwent Inc., 1313 Dolley Madison Boulevard,  
Suite 303, McLean, VA22101, USA  
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